

**JOINT ACTION GROUP FOR PHASED ARRAY RADAR PROJECT (JAG/PARP)**

**COMMITTEE FOR COOPERATIVE RESEARCH (CCR)**

JAG/PARP MEMORANDUM 05-3

July 14, 2005

MEMORANDUM FOR: JAG/PARP Members

FROM: Michael Szkil  
Assistant to the Executive Secretary

SUBJECT: Record of Actions for Meeting 05-3

Attached is the Record of Actions for the JAG/PARP Meeting 05-3 held on 22-23 June 2005. If you have any changes or additions, please call or send them to me. My telephone number is (301) 427-2002, Ext. 26, and my e-mail address is [Michael.Szkil@noaa.gov](mailto:Michael.Szkil@noaa.gov).

cc:  
PAR JAG Mailing List  
OFCM Staff

**JOINT ACTION GROUP FOR PHASED ARRAY RADAR PROJECT (JAG/PARP)**

**COMMITTEE FOR COOPERATIVE RESEARCH (CCR)**

Record of Actions Meeting 05-3

June 22-23, 2005

Office of the Federal Coordinator for Meteorology  
Large Conference Room

Lt. Col. Robert J. Rizza, Executive Secretary

JAG MEMBERS PRESENT

DOC	-	Dr. Daniel Melendez, NOAA
DOD	-	Col. Mark Weadon, USAF, Co-Chairperson
DOT	-	Mr. Ken Leonard, FAA
	-	Mr. William Benner, FAA

OTHER PARTICIPANTS PRESENT

DOD:	-	Mr. William (Mike) Spaulding, USAF/SAIC
	-	Mr. Terry Tielking, USN (CNO N7C)
DOC:	-	Dr. Tim Crum, NOAA
	-	Mr. Michael Szkil, NOAA
	-	Ms. Mary Cairns, NOAA
DOT:	-	Ms. Magda Batista, FAA
	-	Mr. Dave Pace, FAA/SAIC
	-	Mr. Pete Meisl, FAA/MCR
	-	Mr. Andy Stern, FHWA/Mitretek
DHS:	-	Mr. Russell Wooten, TSA
Academia:	-	Dr. Mark Weber, MIT/Lincoln Lab
CASA	-	Dr. V. Chandraseker, CSU
	-	Dr. Dave McLaughlin, UMass
Other	-	Mr. John Heimmer, BCI
Presenters:	-	Mr. Michael Sarcione, Raytheon Company
	-	Mr. Daniel Rypysc, Raytheon Company
	-	Mr. Tim Wallace, JPDO
	-	Dr. Mark Rosker, DARPA

## 1. OPENING REMARKS

Meeting convened at the Office of the Federal Coordinator for Meteorological Services and Supporting Research (OFCM) in Silver Spring, MD, at 8:00 am. Welcome and opening remarks were presented by Col. Mark Weadon. An “around-the-room” introduction from those in attendance was done followed by administrative comments from the executive secretary.

## 2. RECORD OF ACTIONS

**Comments about this Record of Actions (05-2) are due by 13 July 05. No comment will be considered as an approval.**

## 3. MEETING DISCUSSION TOPICS

**Wednesday, June 22, 2005:**

- A. On Wednesday morning two very informative presentations were done by Mr. Michael Sacione and Mr. Daniel Rypysc from the Raytheon Company and by Mr. Tim Wallace from the Joint Planning and Development Office.
  - Mr. Michael Sarcione gave a presentation on Raytheon’s current and future work on phased array radar systems. Mr. Daniel Rypysc gave a presentation on the Terminal Airport Surveillance System (TASS) study completed in 1992. This was a study done by the Raytheon Company and the FAA to compare several phased array radar options as possible replacement systems for the terminal area.
  - Mr. Tim Wallace followed with a briefing on shared situation awareness and national surveillance requirements for the Next Generation Air Transportation System (NGATS). Most requirements are contained in the *National Surveillance Plan*.
- B. The afternoon session began with a review of the Action Items from the previous meeting. All Action Items were completed and closed except for the following:
  - Action Item 05-2.9, rewrite of R&D Plan Chapter 6. Recommend this action item be closed since this chapter will now be rewritten as a *Recommendations* chapter.
  - Action Item 05-2.13, search for historic NEXRAD reports was left as an open item. Dr. Tim Crum has done a search and has found several important documents. He has not found the Booz-Allen report and will continue to search for this document and try to determine if such a report was ever published.
  - Action Item 05-2.11 was closed; however, the Executive Secretary will confirm with Dr. Kimpel he received the information provided by Dr. Weber and it was incorporated in the rewrite to R&D Plan Chapter 5.
- C. The remainder of the afternoon was spent reviewing the Chapter rewrites for the R&D Plan. It was decided to:
  - Include a historic narrative on radar development and add a *Vision and Affordability* section in Chapter 1
  - Rewrite Chapter 2 to indicate the type of radar surveillance functions required and incorporate the agencies’ needs into these sections
  - Include funding information for Chapter 5 timelines

- Rewrite Chapter 6 as a *Recommendations* chapter.

**Thursday, June 23, 2005**

- D. Thursday morning began with another very informative briefing by Dr. Mark Rosker from the Defense Advanced Research Projects Agency (DARPA). Dr. Rosker's presentation gave a brief history of DARPA and the work they are doing on Wide Bandgap semiconductors technology using gallium nitride.
- E. The remainder of the morning was spent recapping the actions items and assignments from the meeting. All rewrites to the R&D Plan chapters are due to the Executive Secretary by July 15, 2005.

#### **4. ACTION ITEMS**

- a. Action Item 05-3.1: Col. Weadon. Send a "thank you" message to Raytheon Company and Dr. Mark Rosker, DARPA, for attending the meeting and briefing the JAG. **Action item completed and closed June 27, 2005.**
- b. Action Item 05-3.2: Dr. Tim Crum. Send original Statement of Work for the WSR-88D (NEXRAD) to Mr. William Benner.
- c. Action Item 05-3.3: Mr. Michael Szkil. Update OFCM PARP web site to include links to ITT Industries and Microwave Applications Group. These two companies did send Capability Statements for the PARP. **Action item completed and closed June 23, 2005.**
- d. Action Item 05-3.4: Ms. Magda Batista. Send 1995 Terminal Airport Surveillance System (TASS) study to OFCM for posting on the PARP web page. **Action item completed and closed July 12, 2005.**
- e. Action Item 05-3.5: Mr. Michael Szkil. Send an electronic copy of the non-disclosure form for PARP Capability Statements to the government employees on the JAG. Send the Capability Statements from the Raytheon Company, ITT Industries, and Microwave Applications Group to the government JAG participants once the signed non-disclosure forms have been returned to OFCM. **The non-disclosure form was sent to the government JAG participants attending the meeting on June 27, 2005.**
- f. Action Item 05-3.6: Lt. Col. Rizza and Mr. Michael Szkil. Rewrite Chapters 1 and 2 to the R&D Plan in accordance with the new formats discussed during the meeting. Chapter rewrites due July 15, 2005. **Action item completed and closed July 5, 2005.**
- g. Action Item 05-3.7: Dr. Kimpel and Ms. Magda Batista. Update Chapter 4 of the R&D Plan to include more emphasis regarding PAR advantages for aircraft surveillance. Chapter rewrite due to the Executive Secretary by July 15, 2005.
- h. Action Item 05-3.8: Dr. Mark Weber. Coordinate with Dr. Kimpel to consolidate engineering research needs into Chapter 5 of the R&D Plan. Chapter rewrite due to the Executive Secretary by July 15, 2005.
- i. Action Item 05-3-9: Dr. Mark Weber. Incorporate CASA information into Chapter 4 and 5 of the R&D Plan. Chapter rewrites due to the Executive Secretary by July 15, 2005.

- j. Action Item 05-3.10: Mr. Ken Leonard. Complete Chapter 6, *Recommendations*, for the R&D Plan. Chapter rewrite due to the Executive Secretary by July 15, 2005.
- k. Action Item 05-3.11: Mr. Ken Leonard. Develop a funding (FTE) proposal for the R&D Plan.
- l. Action Item 05-3.12: Mr. Ken Leonard. Provide FAA radar system update information for R&D Plan.

**NEXT MEETING.**

Tentatively the next meeting is scheduled for 27 Jul 2005. **PLEASE MARK YOUR CALENDARS.**